

ABSTRACT

The present invention relates to an energy ray detecting element having a structure for reducing noise effectively. The energy ray detecting element comprises an energy ray sensitive region, an output section, a plurality of electrodes, and a voltage dividing circuit. The energy ray sensitive region generates charges in response to the incidence of energy rays. On the surface of the energy ray sensitive region, each of the plurality of electrodes is arranged so as to cover a part of the energy ray sensitive region. Each electrode is electrically connected to the voltage dividing circuit that includes a plurality of voltage dividing resistors serially connected to each other. The voltage dividing circuit divides a DC output voltage from a DC power supply by using the voltage dividing resistors, and thereby providing a corresponding DC output potential to each of the electrodes. The output section accumulates the charges generated in the energy ray sensitive region and outputs a current signal or a voltage signal corresponding to the accumulated charge amount.